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BIOTECHNOLOGY SYSTEMS BRANCH

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/029,206
Source: OIPE
Date Processed by STIC: 8/14/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS.

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/029,206</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002
TIME: 09:51:04

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\08142002\J029206.raw

3 <110> APPLICANT: Khan, Nisar A.
4 Benner, Robert
6 <120> TITLE OF INVENTION: Gene regulator
8 <130> FILE REFERENCE: 2183-5222US
10 <140> CURRENT APPLICATION NUMBER: 10/029,206
11 <141> CURRENT FILING DATE: 2001-12-21
13 <150> PRIOR APPLICATION NUMBER: 09/821,380
14 <151> PRIOR FILING DATE: 2001-03-29
16 <160> NUMBER OF SEQ ID NOS: 175
18 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Needed

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ERRORED SEQUENCES

2269 <210> SEQ ID NO: 173
2270 <211> LENGTH: 7
2271 <212> TYPE: PRT
2272 <213> ORGANISM: Artificial Sequence
2274 <220> FEATURE:
2275 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPPF-56
2276 peptide
2278 <400> SEQUENCE: 173
2279 Val Ala Pro Ala Leu Pro Gln
E--> 2280 1 5 misaligned nos. - see item 3 on Error summary sheet

2282 <210> SEQ ID NO: 174
2283 <211> LENGTH: 17
2284 <212> TYPE: PRT
2285 <213> ORGANISM: Artificial Sequence
2287 <220> FEATURE:
2288 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPPF-71
2289 peptide
2293 <400> SEQUENCE: 174
2294 Met Thr Arg Val Leu Pro Gly Val Leu Pro Ala Leu Pro Gln Val Val

E--> 2295

2297 Cys
2299 <210> SEQ ID NO: 175
2300 <211> LENGTH: 10 9 shown below
2301 <212> TYPE: PRT
2302 <213> ORGANISM: Artificial Sequence
2304 <220> FEATURE:
2305 <223> OTHER INFORMATION: Description of Artificial Sequence: NMPPF peptide
2307 <400> SEQUENCE: 175
2308 Cys Arg Gly Val Asn Pro Val Val Ser

see p. 2, also

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002
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Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\08142002\J029206.raw

E--> 2309

1

5

PWI
Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/029,206

DATE: 08/14/2002
TIME: 09:51:05

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF3\08142002\J029206.raw

L:1270 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:97
L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:0
L:1289 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:98
L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:2280 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:173
L:2295 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:174
L:2309 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10 Found:9 SEQ:175